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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/605,124	09/10/2003	Ananthram Subramanian	41PR-135540	2123
23413	7590 01/12/2005	EXAMINER		INER
CANTOR COLBURN, LLP			DONOVAN, LINCOLN D	
55 GRIFFIN ROAD SOUTH BLOOMFIELD, CT 06002			ART UNIT	PAPER NUMBER
			2832	
			DATE MAILED: 01/12/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/605,124	SUBRAMANIAN ET AL.			
Office Action Summary	Examiner	Art Unit			
	Lincoln Donovan	2832			
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with the o	correspondence address -			
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a relif NO period for reply is specified above, the maximum statutory perions after the reply method in the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	1. 1.136(a). In no event, however, may a reply be tile by within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE.	mely filed ys will be considered timely. In the mailing date of this communication. ED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on	·				
2a) This action is FINAL . 2b) ⊠ Th	nis action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) ⊠ Claim(s) <u>1-20</u> is/are pending in the application 4a) Of the above claim(s) is/are withdrest 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1-20</u> is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and are	rawn from consideration.				
Application Papers					
9) The specification is objected to by the Examir 10) The drawing(s) filed on 10 September 2003 is Applicant may not request that any objection to the Replacement drawing sheet(s) including the corre 11) The oath or declaration is objected to by the Examiration.	s/are: a) \square accepted or b) \boxtimes objected or by \boxtimes objected drawing(s) be held in abeyance. Selection is required if the drawing(s) is objection	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burest * See the attached detailed Office action for a list	nts have been received. nts have been received in Applicationity documents have been received au (PCT Rule 17.2(a)).	ion No ed in this National Stage			
Attachment(s)					
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Paper No(s)/Mail Date					
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 		ate Patent Application (PTO-152)			

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DETAILED ACTION

Drawings

New corrected drawings in compliance with 37 CFR 1.121(d) are required in this application because reference numerals designating the various elements must be clear and all elements must be clearly defined, see, for example, element 208, figure 5.

Applicant is advised to employ the services of a competent patent draftsperson outside the Office, as the U.S. Patent and Trademark Office no longer prepares new drawings.

The corrected drawings are required in reply to the Office action to avoid abandonment of the application. The requirement for corrected drawings will not be held in abeyance.

The drawings are objected to as failing to comply with 37 CFR 1.84(p)(4) because reference character "220" has been used to designate both the end portion of side portion 89 of the handle yoke and crank 208. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "blocking lever"

must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

The disclosure is objected to because of the following informalities: in paragraph 22, "Application Number 6,218,919" should be corrected as -- Patent Number 6,218,919 --. All references to attorney docket numbers must be deleted throughout the specification, see, for example, paragraph 28.

Appropriate correction is required.

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Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 12 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In lines 3-4, it is not clear what is intended by "attempted to the off position."

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-5 and 7-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mader et al. [US 5,543,595] in view of Gula [US 4,951,019].

Regarding claims 1-5, Mader et al. disclose a circuit breaker [1] comprising:

- a handle yoke [11], including an engagement surface, movable between an on and off position;
- a contact arm [22] supporting at least one contact [24a] at an end thereof, the contact arm being movable between a closed position and an open position; and
- a crank [23] operably coupled to the handle yoke and the contact arm to move the contact arm from the closed position to the open position when the handle yoke is moved from the on position to the off position, the crank having an integrally formed

"blocking lever" (302) extending therefrom the blocking lever interacting with the handle yoke engagement surface to prevent the handle yoke form being moved to the off position when the contact arm is fixed in the closed position.

Mader et al. disclose everything claimed except the engagement surface being a "projection."

Gula discloses a circuit breaker having a handle yoke [16] including a projection [500] cooperating with a movable contact arm crossbar assembly to prevent the handle from moving into an off position when the contacts are welded [column 6, lines 1-62].

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use a projection on the yoke of Mader et al. for the engagement surface, as suggested by Gula, for the purpose of blocking operation of the handle only in a welded contact condition and prevent a false off indication.

Regarding claims 7-12, Mader et al. disclose the use of a collapsible toggle linkage operating mechanism for the circuit breaker including upper and lower links [15-17] connecting the handle yoke to the movable contact arm via a cradle [12] biased by a spring [19] designed for rotation about a central axis with an upper link pin [32] mounted on a diametrically opposing side of the axis relative to a lower link pin [21].

Regarding claims 13-17 and 19-20, the claimed method steps would have been necessitated by the product structure.

Claims 6 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mader et al., as modified, as applied to claims 1 and 13 above, and further in view of Castonguay et al. [US 6,166,344].

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Mader et al., as modified, disclose everything claimed except the contact arm having contacts at opposing ends thereof.

Castonguay et al. disclose a contact arm [figure 5] having contacts at opposing ends thereof.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the design of Castonquay et al. with the operating mechanism of Mader et al., as modified, for the purpose of providing rotary contact operation.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Crookston et al. [US 5,296,664], Lawson et al. [US 6,222,143] and Beck et al. [US 5,874,699].

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lincoln Donovan whose telephone number is 571-272-1988. The examiner can normally be reached on M-F 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Elvin Enad can be reached on 571-272-1990. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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